BRUHAT BANGALORE MAHANAGARA PALIKE

BBMP/2021-22/OW/WORK_INDENT47608

APPROVED SCHEDULE - B

No.EE/BTP/BBMP/E-PMT/04/2021-22, Date:02-06-2021

Name of Work:Improvements to roads and drains at MCECHS layout in ward no. 05, Byatarayanapura Sub Division

Sl. No.	Approved Qty.	Description	Unit	Approved Tender Rates of M/S SATHYA CONSTRUCTIONS PROP. SRI. R. SATHEESH	
				In Figures	In Words
1	2923.2	Removing B.S Slab of Drain and stacking and (5km lead = 57+2*1.28X5) complete as per specifications and directions of the Engineer in charge.	Sqm	183.44	Rupees One Hundred Eighty Three and Forty Four Paise Only
2	28.98	Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS (8km lead = 57+2*1.28X5) complete as per specifications and directions of the Engineer in charge.	Cum	463.86	Rupees Four Hundred Sixty Three and Eighty Six Paise Only
3	140.35	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH (8km lead = 57+2*1.28X5) complete as per specifications and directions of the Engineer in charge.	Cum	693.10	Rupees Six Hundred Ninety Three and Nine Paise Only
4	3108.4	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods(8km lead = 57+2*1.28X5) complete as per specifications and directions of the Engineer in charge.	Cum	217.94	Rupees Two Hundred Seventeen and Ninety Three Paise Only
5	395.82	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and directions of the Engineer in charge.	Cum	5963.50	Rupees Five Thousand Nine Hundred Sixty Three and Fifty Paise Only
6	858.07	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm complete as per specifications and directions of the Engineer in charge.	Cum	7792.65	Rupees Seven Thousand Seven Hundred Ninety Two and Sixty Five Paise Only
7	53.63	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH complete as per specifications and directions of the Engineer in charge.	tonne	84137.90	Rupees Eighty Four Thousand One Hundred Thirty Seven and Ninety Paise Only
8	2092.2	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate) complete as per specifications and directions of the Engineer in charge.	Sqm	2453.38	Rupees Two Thousand Four Hundred Fifty Three and Thirty Eight Paise Only
9	200.22	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc complete as per specifications and directions of the Engineer in charge.	Sqm	5687.82	Rupees Five Thousand Six Hundred Eighty Seven and Eighty One Paise Only

Signature of the Contractor

Executive Engineer

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10	44.16	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications and directions of the Engineer in charge.	Cum	6329.82	Rupees Six Thousand Three Hundred Twenty Nine and Eighty Two Paise Only
11	995	Removing and resetting of kerb stones complete as per specifications and directions of the Engineer in charge.	m	110.17	Rupees One Hundred Ten and Sixteen Paise Only
12	2696	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete., complete as per specifications and directions of the Engineer in charge.	Nos	454.02	Rupees Four Hundred Fifty Four and One Paise Only
13	883.2	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and directions of the Engineer in charge.	Sqm	89.02	Rupees Eighty Nine and Two Paise Only
14	419.88	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and directions of the Engineer in charge.(8 km lead = 2*1.28X5)	Cum	59.06	Rupees Fifty Nine and Six Paise Only
15	1485.9	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications and directions of the Engineer in charge.	Cum	361.66	Rupees Three Hundred Sixty One and Sixty Five Paise Only
16	4112.1	Scarifying by mechanical means stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges complete as per specifications and directions of the Engineer in charge.	Sqm	43.40	Rupees Forty Three and Thirty Nine Paise Only
17	4112.1	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and directions of the Engineer in charge.	Sqm	6.68	Rupees Six and Sixty Seven Paise Only
18	642.81	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and directions of the Engineer in charge.	Cum	2094.27	Rupees Two Thousand Ninety Four and Twenty Six Paise Only
19	1337.06	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge.	Cum	2100.94	Rupees Two Thousand One Hundred and Ninety Four Paise Only
20	5813.3	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	23.37	Rupees Twenty Three and Thirty Six Paise Only
21	9053.82	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge.	Sqm	35.61	Rupees Thirty Five and Sixty Paise Only
22	452.69	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen complete as per specifications and directions of the Engineer in charge.	Cum	7655.98	Rupees Seven Thousand Six Hundred Fifty Five and Ninety Eight Paise Only

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23	12962.1	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	5.56	Rupees Five and Fifty Six Paise Only
24	12962.1	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications and directions of the Engineer in charge.	Sqm	13.35	Rupees Thirteen and Thirty Five Paise Only
25	518.48	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). complete as per specifications and directions of the Engineer in charge.	Cum	8970.18	Rupees Eight Thousand Nine Hundred Seventy and Eighteen Paise Only
26	318.75	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and directions of the Engineer in charge.	Sqm	477.39	Rupees Four Hundred Seventy Seven and Thirty Eight Paise Only

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